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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/042,000	10/25/2001	Johan Rune	040000-847	6973

7590 02/10/2005

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EXAMINER	
TRAN, PHILIP B	
ART UNIT	**PAPER NUMBER**
2155	

DATE MAILED: 02/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/042,000	RUNE, JOHAN	
	Examiner	Art Unit	
	Philip B Tran	2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *22 July 2002*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-37* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-37* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *25 October 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *6/02 and 7/02*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. Figures 1-3 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 U.S.C. § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless --
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-8, 22 and 27-30 are rejected under 35 U.S.C. § 102(e) as being anticipated by Morris et al (Hereafter, Morris), U.S. Pat. No. 6,691,173.

Regarding claim 1, Morris teaches a method for coordinating network nodes in a network, the method comprising the steps of informing a first slave node, by a master

node, of a first period to scan for inquiry messages, informing a second slave node, by the master node, of a second period for scanning for inquiry messages, wherein the first period and second period do not occur during a same period of time, and scanning, by the first slave node, for inquiry messages during the first period, wherein an inquiry message is used by a node sending the inquiry message to determine which nodes are reachable by the node sending the inquiry message (= forming communication between master node and slave node in wireless network, identifying node's address and services offered thereby, and transmitting information from one node to another) [see Abstract and Figs. 1-4 and Col. 2, Line 1-54 and Col. 3, Line 25 to Col. 4, Line 48 and Col. 9, Line 21 to Col. 10, Line 30].

Regarding claim 2, Morris further teaches the method of claim 1, wherein the network is a wireless network [see Abstract and Fig. 1].

Regarding claim 3, Morris further teaches the method of claim 2, wherein nodes of the wireless network communicate using frequency hopping [see Col. 1, Lines 10-27].

Regarding claim 4, Morris further teaches the method of claim 3, wherein the network operates according to Bluetooth protocol [see Col. 3, Lines 15-25].

Regarding claim 5, Morris teaches a method for coordinating network nodes in a network, the method comprising the steps of informing a first slave node, by a master

node, of a first period to send an inquiry message, informing a second slave node, by the master node, of a second period for sending an inquiry message, wherein the first period and second period do not occur during a same period of time, and sending, by the first slave node, an inquiry message during the first period, wherein the inquiry message is used by the first node to determine which nodes are reachable by the first node (= forming communication between master node and slave node in wireless network, identifying node's address and services offered thereby, and transmitting information from one node to another) [see Abstract and Figs. 1-4 and Col. 2, Line 1-54 and Col. 3, Line 25 to Col. 4, Line 48 and Col. 9, Line 21 to Col. 10, Line 30].

Regarding claim 6, Morris further teaches the method of claim 5, wherein the network is a wireless network [see Abstract and Fig. 1].

Regarding claim 7, Morris further teaches the method of claim 6, wherein nodes of the wireless network communicate using frequency hopping [see Col. 1, Lines 10-27].

Regarding claim 8, Morris further teaches the method of claim 7, wherein the network operates according to Bluetooth protocol [see Col. 3, Lines 15-25].

Claim 22 is rejected under the same rationale set forth above to claim 1.

Claims 27-30 are rejected under the same rationale set forth above to claims 1-4, respectively.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 9-21, 23-26 and 31-37 are rejected under 35 U.S.C 103(a) as being unpatentable over Morris et al (Hereafter, Morris), U.S. Pat. No. 6,691,173 in view of Kardach, "Bluetooth Architecture Overview", Intel Corporation, 1998.

Regarding claim 9, Morris teaches a method for coordinating establishment of a connection between network nodes in a network, the method comprising the steps of sending an inquiry message from a first node to a second node, sending an inquiry response message from the second node to the first node (= forming communication between master node and slave node in wireless network, identifying node's address and services offered thereby, and transmitting information from one node to another) [see Abstract and Figs. 1-4 and Col. 2, Line 1-54 and Col. 3, Line 25 to Col. 4, Line 48 and Col. 9, Line 21 to Col. 10, Line 30].

Morris does not explicitly teach the inquiry response message includes page scan information which indicates parameters related to a scanning for page messages by the second node and paging from the first node to the second node in accordance with the page scan information. However, Kardach, in the same field of wireless communication using Bluetooth technology endeavor, discloses master node paging a slave node [see Pages 29-35]. It would have been obvious to one of ordinary skill in the

art at the time of the invention was made to incorporate Kardach's teaching into Morris's system in order to coordinate inquiry and page procedures between nodes in an efficient manner in a wireless network.

Regarding claims 10-12, Morris does not explicitly teach the method of claim 9, wherein the parameters include timing and frequency information related to the scanning for page messages by the second node, wherein the parameters include a length of the scan period, a page scan repetition interval and a number of page scan repetitions and information related to the number of times the page scan information has been distributed. However, Kardach, in the same field of wireless communication using Bluetooth technology endeavor, discloses master node paging a slave node including timing and frequency information [see Pages 29-35]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate Kardach's teaching into Morris's system in order to coordinate inquiry and page procedures between nodes in an efficient manner in a wireless network.

Regarding claim 13, Morris further teaches the method of claim 9, wherein the network is a wireless network [see Abstract and Fig. 1].

Regarding claim 14, Morris further teaches the method of claim 9, wherein nodes of the wireless network communicate using frequency hopping [see Col. 1, Lines 10-27].

Regarding claim 15, Morris further teaches the method of claim 9, wherein the network operates according to Bluetooth protocol [see Col. 3, Lines 15-25].

Claim 16 is rejected under the same rationale set forth above to claim 9.

Claims 17-18 are rejected under the same rationale set forth above to claims 10-12.

Claims 19-21 are rejected under the same rationale set forth above to claims 13-15, respectively.

Regarding claim 23, Morris does not explicitly teach the method of claim 22, further comprising the steps of: paging from the second slave node to the first slave node in accordance with the page scan information; responding to the page by the first slave node, thereby establishing a connection between the first slave node and the second slave node. However, Kardach, in the same field of wireless communication using Bluetooth technology endeavor, discloses master node paging a slave node [see Pages 29-35]. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to incorporate Kardach's teaching into Morris's system in order to coordinate inquiry and page procedures between nodes in an efficient manner in a wireless network.

Regarding claim 24, Morris further teaches the method of claim 23, wherein the network is a wireless network [see Abstract and Fig. 1].

Regarding claim 25, Morris further teaches the method of claim 23, wherein nodes of the wireless network communicate using frequency hopping {see Col. 1, Lines 10-27].

Regarding claim 26, Morris further teaches the method of claim 23, wherein the network operates according to Bluetooth protocol [see Col. 3, Lines 15-25].

Claim 31 is rejected under the same rationale set forth above to claim 9.

Claims 32-34 are rejected under the same rationale set forth above to claims 10-12.

Claims 34-37 are rejected under the same rationale set forth above to claims 13-15, respectively.

Other References Cited

6. The following references cited by the examiner but not relied upon are considered pertinent to applicant's disclosure.

A) Haartsen, U.S. Pat. No. 6,590,928.

B) Welles, II et al, U.S. Pat. No. 5,691,980.

C) Anvekar et al, U.S. Pat. No. 6,377,805.

D) Jakobsson et al, U.S. Pat. No. 6,574,455.

E) Chuang et al, U.S. Pat. No. 6,052,594.

F) Heiman et al, U.S. Pat. No. 6,587,034.

G) Jones et al, U.S. pat. No. 6,108,314.

l) Nevo et al, U.S. Pat. No. 6,600,726.

7. A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS ACTION IS SET TO EXPIRE THREE MONTHS, OR THIRTY DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. FAILURE TO RESPOND WITHIN THE PERIOD FOR RESPONSE WILL CAUSE THE APPLICATION TO BECOME ABANDONED (35 U.S.C. § 133). EXTENSIONS OF TIME MAY BE OBTAINED UNDER THE PROVISIONS OF 37 CAR 1.136(A).

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Tran whose telephone number is (571) 272-3991. The Group fax phone number is (703) 872-9306.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam, can be reached on (571) 272-3978.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Philip Tran
Philip B. Tran
Art Unit 2155
Feb 04, 2005